

CREATING OPTIMIZED MAPPINGS FOR VT1.5 AND VT2 SWITCHING

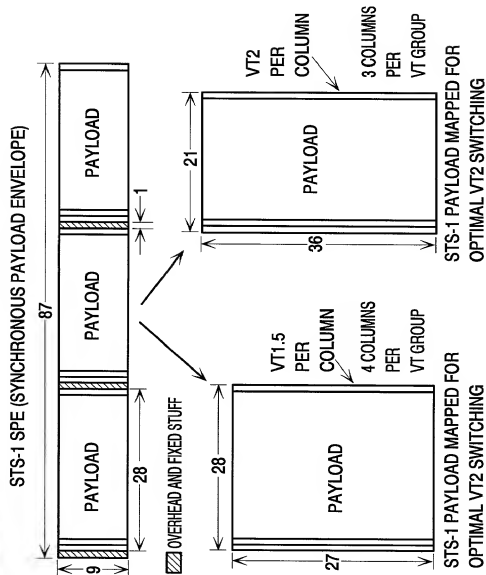
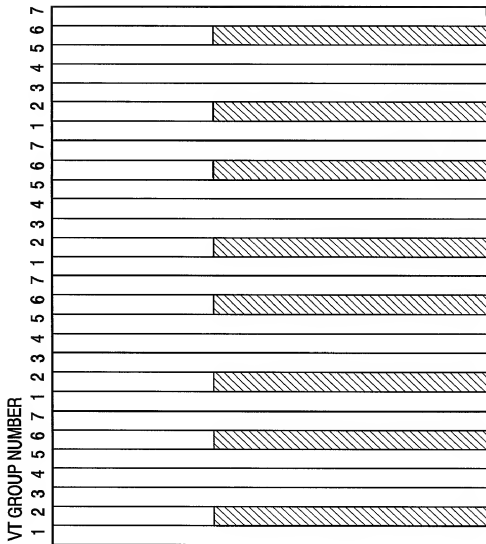


Fig. 1
Prior Art

Mixing VT2s into a VT1.5-optimized Configuration



IN THIS EXAMPLE, VT GROUPS 3, 4 AND 7
ARE VT1.5S WHILE VT GROUPS 1 AND 2
ARE COMBINED TO CARRY A SINGLE VT2.
THE SAME IS SHOWN FOR VT GROUPS 5
AND 6.

THE DARK AREAS REPRESENT WASTED
BANDWIDTH (33% PER VT2 CARRIED).

Fig. 2
Prior Art

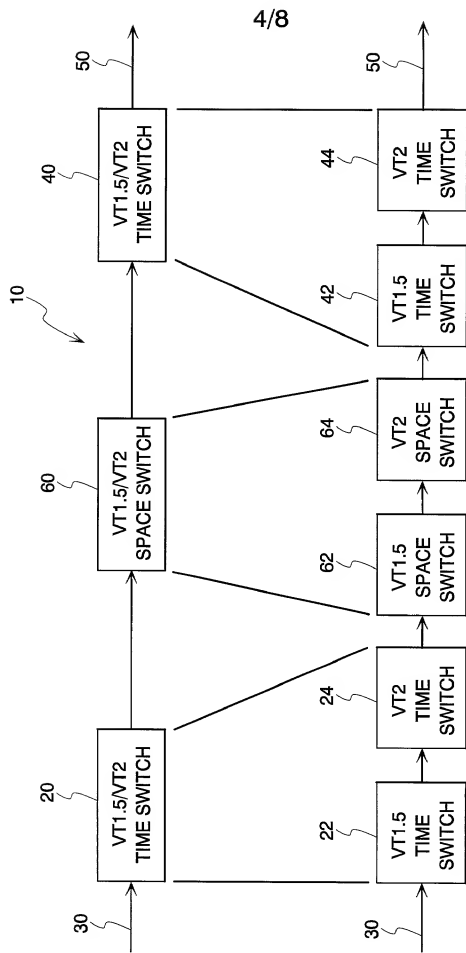
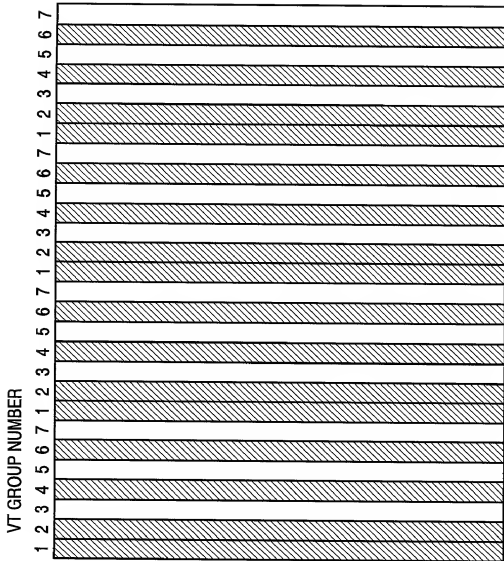


Fig. 4



IN THIS EXAMPLE, VT GROUPS 3, 5, AND 7 CARRY VT1.5S WHILE VT GROUPS 1, 2, 4 AND 6 CONTAIN VT2S.

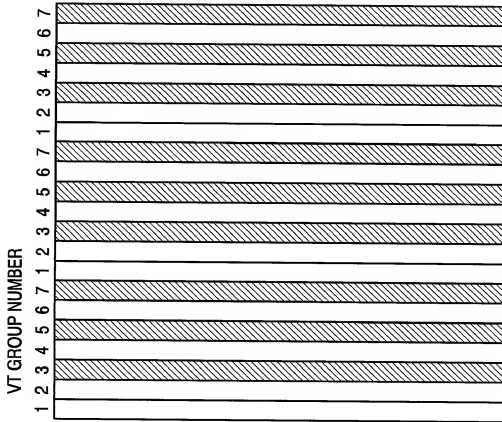
THE DARK COLUMNS REPRESENT NON-VT1.5 TRAFFIC WHICH IS IGNORED BY THE VT1.5 SWITCHING ELEMENTS.

ALL WHITE COLUMNS CAN BE INTERCHANGED WITH EACH OTHER FOR FULL TIME MANIPULATION OF THE VT1.5 TRAFFIC CONTENT.

VT GROUPS 1, 2, 4 AND 6 CAN BE EXCHANGED IF ALL 4 COLUMNS MAKING UP EACH GROUP ARE KEPT TOGETHER AND IN THE SAME RELATIVE ORDER.

Fig. 5

Time Switching Mixed VT Traffic: VT1.5 Time Switch Step



CONTINUING WITH THE SAME EXAMPLE AS IN
FIGURE 5, VT GROUPS 3, 5, AND 7 CARRY VT1.5S
WHILE VT GROUPS 1, 2, 4 AND 6 CONTAIN VT2S.

THE DARK COLUMNS REPRESENT NON-VT2
TRAFFIC WHICH IS IGNORED BY THE VT2
SWITCHING ELEMENTS.

ALL WHITE COLUMNS CAN BE INTERCHANGED
WITH EACH OTHER FOR FULL TIME MANIPULATION
OF THE VT2 TRAFFIC CONTENT.

VT GROUPS 3, 5 AND 7 CAN BE EXCHANGED
IF ALL 3 COLUMNS MAKING UP EACH VT GROUP
KEPT TOGETHER AND IN THE SAME RELATIVE ORDER.

Fig. 6

Time Switching Mixed VT Traffic: VT2 Time Switch Step

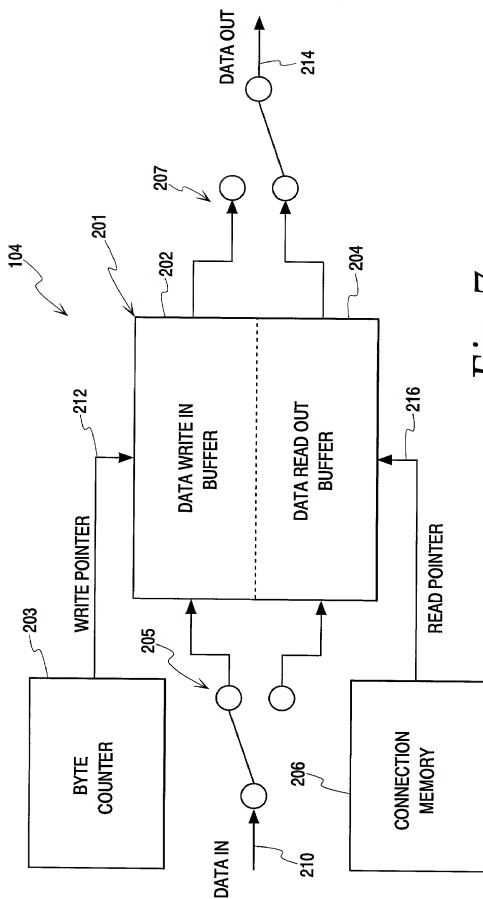


Fig. 7

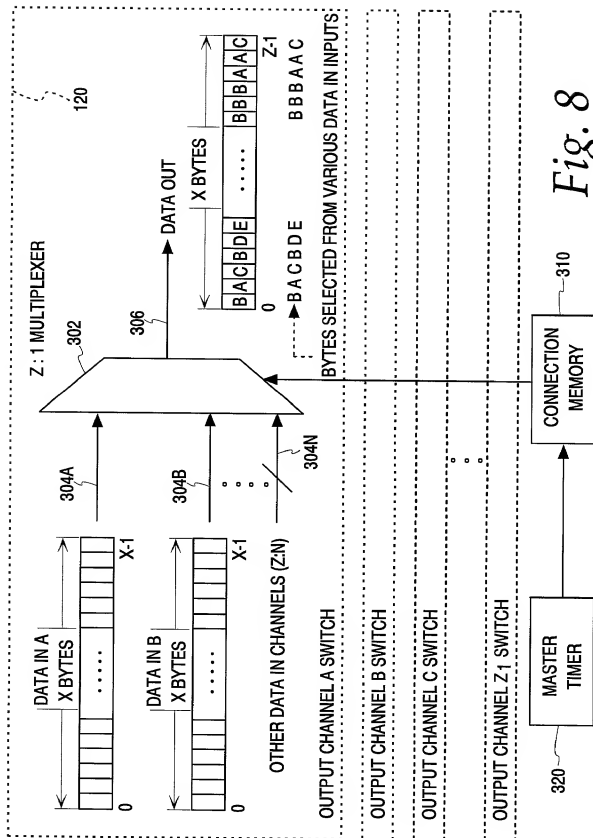


Fig. 8